

1309.43490X00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: K. TAMURA et al.

Serial No.: 10/769,805

Filed: February 3, 2004

For: STORAGE SYSTEM AND STORAGE CONTROLLER

Group: 2186

Examiner: H. B. Patel



**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97 & 1.98**

MS Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

June 20, 2006

Sir:

In the matter of the above-identified application, applicants are submitting herewith a copy of a communication from a foreign patent office in a counterpart foreign application and copies of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration. The Examiner is informed that copies of the U.S. documents are not being enclosed.

This information disclosure statement is being submitted before the mailing date of either a final action or a notice of allowance and is accompanied by the fee of \$180.00 set forth in 37 CFR §1.17(p).

06/21/2006 MBIZUNES 00000121 10769805

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To the extent the documents listed on the attached form equivalent to Form PTO-1449 are not in the English language, the requirement of 37 CFR §1.98(a)(3) for a concise explanation of the relevance is satisfied by an English language translation of the documents.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C., Deposit Account No. 50-1417 (1309.43490X00) please credit any excess fees to such deposit account.

Respectfully submitted,



Carl I. Brundidge
Registration No. 29,621
MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.

CIB/jdc
(703) 684-1120



FORM PTO-1449 U.S. Department of
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

1309.43490X00

SERIAL NO.

10/649,635

APPLICANT
K. TAMURA, et al

FILING DATE
February 3, 2004

GROUP
2186

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		4	0	2	5	9	0	4	5/77		Adney et al				
		5	4	0	8	4	6	5	4/95	Gusella et al					
		5	4	5	9	8	5	7	10/95	Ludlam et al					
		5	6	8	0	5	8	0	10/97	Beardsley et al					
		5	8	7	0	5	3	7	2/99	Kern et al					
		5	8	9	5	4	8	5	4/99	Loeschel et al					
		5	9	1	7	7	2	3	6/99	Binford					
		5	9	5	6	7	5	0	9/99	Yamamoto, et al					
		6	0	1	2	1	2	3	1/00	Pecone et al					
		6	0	9	8	1	2	9	7/00	Fukuzawa et al					

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
		1	0	2	8	3	2	7	2					YES	NO	
		1	0	2	8	3	2	7	2	10/98	Japan				XX	
		2	0	9	3	3	1	7		10/00	Japan				XX	
		2	0	6	7	1	8	7		3/01	Japan				XX	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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(Form PTO-1449 [6-4])

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		6	1	7	3	3	7	4					
		6	2	1	9	7	5	3	4/01	Richardson			
		6	2	4	7	0	9	9	6/01	Skazinski et al			
		6	2	4	7	1	0	3	6/01	Kern et al			
		6	4	4	6	1	4	1	9/02	Nolan et al			
		6	4	4	6	1	7	5	9/02	West et al			
		6	4	8	4	1	7	3	11/02	O'Hare, et al			
		6	4	9	0	6	5	9	12/02	McKean et al			
		6	5	2	3	0	9	6	2/03	Sanada et al			
		6	5	2	9	9	7	6	3/03	Fukuzawa et al			
		6	5	5	3	4	0	8	4/03	Merrell et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
														YES		
		2 0 0 2	1	5	7	0	9	1		5/02	Japan				XX	
		2 0 0 2	2	3	0	2	4	6		8/02	Japan				XX	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	White Paper, "Network Attached Storage in the Data Protection Environment", Sony Electronics Inc., Feb. 2002, pps. 1-23.
	S. Sicola, "SCSI-3 Fault Tolerant Controller Configurations Utilizing SCC & New Event Codes", High Availability Study Group, Doc. No. X3T10 95-312r3, Rev. 3.0, Feb. 28, 1996, pp. 1-4.

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		6	6	4	0	2	7	8	10/03	Nolan et al			
		6	6	4	7	4	7	4	11/03	Yanai et al			
		6	6	5	4	8	3	0	11/03	Taylor et al			
		6	6	5	4	8	3	1	11/03	Otterness et al			
		6	6	7	5	2	5	8	1/04	Bramhall et al			
		6	6	8	1	3	3	9	1/04	McKean et al			
		6	6	8	4	3	1	0	1/04	Anzai et al			
		6	7	4	5	2	8	1	6/04	Saegusa			
		6	7	9	9	2	5	5	9/04	Blumenau et al			
		6	8	5	1	0	2	0	2/05	Matsumoto et al			
		6	8	8	3	0	6	4	4/05	Yoshida et al			

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	2 0 0 1	0	0	5	0	9	1	5	12/01	O'Hare et al				
	2 0 0 1	0	0	5	2	0	1	8	12/01	Yokokura				
	2 0 0 2	0	0	0	4	8	5	7	1/02	Arakawa et al				
	2 0 0 2	0	1	3	3	7	3	5	9/02	McKean et al				
	2 0 0 2	0	1	5	6	8	8	7	10/02	Hashimoto				
	2 0 0 3	0	0	3	7	0	7	1	2/03	Harris et al				
		6	3	5	6	9	7	7	3/02	Ofek et al				

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	2 0 0 3	0	0	5	1	1	0	9	3/03	Cochran				
	2 0 0 3	0	0	5	6	0	3	8	3/03	Cochran				
	2 0 0 3	0	0	9	7	6	0	7	5/03	Bessire				
	2 0 0 3	0	1	0	1	2	2	8	5/03	Busser et al				
	2 0 0 3	0	1	1	5	4	3	2	6/03	Biessener et al				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
		1	4	1	6	0	6	2	5/03	China				YES
														Eng. Trans.

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	"SAN Virtualization Guidelines", DataCore Software Corporation, 2000, pp. 1-9.

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2 0 0 3	0	1	2	6	3	2	7	7/03	Pesola et al			
2 0 0 3	0	1	4	5	1	6	8	7/03	LeCrone et al			
2 0 0 3	0	1	5	8	9	9	9	8/03	Hauck et al			
2 0 0 3	0	1	6	7	4	1	9	9/03	Yanai et al			
2 0 0 3	0	2	0	0	3	8	7	10/03	Urabe et al			
2 0 0 3	0	2	0	4	5	9	7	10/03	Arakawa et al			
2 0 0 3	0	2	1	2	8	6	0	11/03	Jiang et al			

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	2 0 0 4	0	0	0	3	0	2	2	1/04	Garrison et al				
	2 0 0 4	0	0	4	9	5	5	3	3/04	Iwamura et al				
	2 0 0 4	0	0	5	4	8	5	0	3/04	Fisk				
	2 0 0 4	0	0	6	4	6	1	0	4/04	Fukuzawa et al				
	2 0 0 4	0	0	6	4	6	4	1	4/04	Kodama				

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	2 0 0 4	0	1	2	3	1	8	0	6/04	Soejima, et al				
	2 0 0 4	0	1	4	3	8	3	2	7/04	Yamamoto, et al				
	2 0 0 4	0	1	4	8	4	4	3	7/04	Achiwa et al				
	2 0 0 4	0	1	7	2	5	1	0	9/04	Nagashima et al				
	2 0 0 4	0	2	3	0	9	8	0	11/04	Koyama et al				
	2 0 0 4	0	2	6	0	8	7	5	12/04	Murotani et al				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
															YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Introduction to Storage Pooling, Consolidation Storage Resources with DataCore SANsymphony Software" White Paper, DataCore Software, upda ged July 2003, pp. 1-8.
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		5	1	5	5	8	4	5	10/92	Beal et al						
2 0 0 4	0	2	6	0	9	6	6	12/04	Kaiya et al							
2 0 0 2	0	0	2	9	3	2	6	3/02	Reuter et al							
2 0 0 2	0	0	0	3	0	2	2	1/02	Csida et al							
2 0 0 2	0	0	2	6	5	5	8	2/02	Reuter et al							
2 0 0 2	0	0	1	9	9	2	0	2/02	Reuter et al							
2 0 0 2	0	0	1	9	9	2	2	2/02	Reuter et al							
2 0 0 2	0	0	1	9	9	2	3	2/02	Reuter et al							

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		6	1	9	5	7	3	0						
		2	0	0	1	9	9	0	8	2/01	West			
		2	0	0	6	5	8	6	4	2/02	Reuter et al			
		2	0	0	8	7	5	4	4	5/02	Hartsell, et al			
		2	0	0	8	7	5	4	4	7/02	Selkirk, et al			
		2	0	0	1	0	3	8	8	8/02	Markson, et al			
		2	0	0	1	1	2	1	1	8/02	Karpoff, et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
		9	7	0	9	6	7	6						YES	NO
		9	7	0	9	6	7	6		3/97	PCT				

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	2 0 0 2	0	1	5	6	9	8	4	10/02	Padovano				
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	2 0 0 2	0	1	8	8	5	9	2	12/02	Leonhardt, et al				
	2 0 0 5	0	2	4	0	7	4	1	10/05	Nagasawa et al				
		5	9	7	8	8	9	0	11/99	Ozawa et al				

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	P. Sarkar, et al "Internet Protocol Storage Area Networks", IBM Systems, Journal, vol. 42, No. 2, 2003, pp. 218-231.
	E. Anderson, et al, "Hippodrome: Running Circles Around Storage Administration", Hewlett-Packard Laboratories, pp. 14.

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	2 0 0 3	0	0	9	3	5	6	7	5/03	Lolayekar, et al			
	2 0 0 4	0	0	6	8	6	3	7	4/04	Nelson et al			
	2 0 0 3	0	2	2	9	6	4	5	12/03	Nelson et al			
	2 0 0 5	0	0	3	3	8	7	8	2/05	Mogi et al			
	2 0 0 4	0	1	3	9	2	3	7	7/04	Pangal et al			
	2 0 0 3	0	1	1	5	2	1	8	6/03	Bobbit et al			

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		6	8	5	7	0	5	7	4/04	Reuter et al			
		6	9	7	3	5	4	9	2/05	Nelson et al			
		6	9	7	6	1	0	3	12/05	Testardi			
		3	7	7	1	1	3	7	12/05	Watanabe et al			
		3	7	7	1	1	3	7	11/73	Barner et al			

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		YES	NO												
		0	3	0	2	3	6	4	0	3/03	PCT				

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	JP 10-508967 (PCT equivalent WO 97/09676).

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		6	7	7	2	3	1	5	11/03	Perego			
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2 0 0 5	0	1	3	8	1	8	4		6/05	Amir			
2 0 0 4	0	0	5	4	8	6	6		3/04	Blumenau et al			
2 0 0 4	0	0	2	8	0	4	3		2/04	Maveli et al			

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													YES	NO	

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	"SANRAD Application Note: Migrating Individual Servers to an iSCSI SAN", APP-004-01, SANRAD 2003, pp. 1-15.
	"SANRAD Application Note: Data Migration Solution Transferring Data Between Storage Systems Over Fibre-Channel or SCSI Connections, APP-003-03, SANRAD 2003, pp. 1-9.
	"White Paper – Celerra Data Migration Service (CDMS)", EMC Corporation, Jan. 2002, pp. 1-13.

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									1309.43490X00				10/649,635
									APPLICANT	K. TAMURA, et al			
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February 3, 2004				2186									

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2 0 0 1	0	0	5	4	1	3	3	12/01	Murotani et al				
	2 0 0 2	0	1	2	4	1	0	8	9/02	Terrell et al				
	2 0 0 3	0	2	0	4	7	0	0	10/03					
	2 0 0 5	0	0	1	0	7	4	3	01/05	Tremblay et al				
		4	7	1	0	8	6	8	12/87	Cocke et al				
		6	3	4	1	3	2	9	1/02	LeCrone et al				
		6	6	8	1	3	0	3	1/04	Watabe et al				

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EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5	7	5	8	1	1	8	5/98	Choy et al	711	114		
		5	8	3	5	9	5	4	11/98	Duyanovich et al	711	162		
		6	1	0	8	7	4	8	8/00	Ofek et al	711	112		
		6	2	3	0	2	3	9	5/01	Sakaki et al	711	112		
		6	2	4	0	4	8	6	5/01	Ofek et al	711	112		
		6	4	5	7	1	3	9	9/02	D'Errico et al	714	5		
		6	6	4	0	2	9	1	10/03	Fujibayashi et al	711	162		
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		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5	5	4	8	7	1	2	8/96	Larson et al		714	7	
		5	6	8	0	6	4	0	10/97	Ofek et al		710	19	
2 0 0 2	0	1	9	4	5	2	3		12/02	Ulrich et al		714	4	
2 0 0 3	0	1	8	2	5	2	5		9/03	O'Connell et al		711	162	
2 0 0 5	0	0	8	1	0	0	9		4/05	Williams et al		711	163	
2 0 0 5	0	0	1	0	7	3	4		1/05	Soejima et al		711	163	
2 0 0 3	0	1	4	5	1	6	9		7/03	Nagasawa et al		711	117	
		7	0	5	1	1	2	1	5/06	H. Ohno, et al				

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